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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/576,981	03/02/2007	Martin Leonard Ashdown	75228-335252	8112
36567 7590 0921/2008 FAEGRE & BENSON LLP PATENT DOCKETING 2200 WELLS FARGO CENTER 90 SOUTH SEVENTH STREET			EXAMINER	
			LUCAS, ZACHARIAH	
			ART UNIT	PAPER NUMBER
MINNEAPOLIS, MN 55402-3901			1648	
			MAIL DATE	DELIVERY MODE
			05/21/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/576.981 ASHDOWN, MARTIN LEONARD Office Action Summary Examiner Art Unit Zachariah Lucas 1648 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 02 March 2007. 2a) ☐ This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 45-65 is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) _____ is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 45-65 are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s)

1) Notice of References Cited (PTO-892)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Information Disclosure Statement(s) (FTO/S5/08)
 Paper No(s)/Mail Date _______.

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

5 Notice of Informal Patent Application

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DETAILED ACTION

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 45-62, and 64-66, drawn to methods for analyzing effector or regulator cell cycling to determine when an agent should be administered to a patient suffering from a disease characterized by the production of regulator cells, and a kit for use in such a method.

Group II, claim(s) 63, drawn to methods for diagnosing a disease characterized by the production of regulator cells through analyzing effector or regulator cell cycling.

2. The inventions listed as Groups I and II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: the common technical feature of these inventions is the measurement of regulator or effector cell cycling. Methods involving making such determinations are known in the prior art. See e.g. WO 02/13828 (of record in the March 2007 IDS), claims 1, 2, and 10 (indicating that timing of pharmaceutical agents is determined by measuring regulator or effector cell cycling). The inventions therefore lack a common special technical feature over the prior art.

Species Election

3. This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

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For each of Groups I and II above, Applicant is required to elect an embodiment of the claimed invention wherein the claimed methods involves monitoring:

- (a) effector cell (e.g. CD8+) numbers (claims 45, 46, and 53),
- (b) effector cell activity (claims 45 and 46),
- (c) regulator cells (e.g. CD4+) numbers (claims 45, 46, and 52),
- (d) regulator cell activity (claims 45 and 46),
- (e) molecules associated with the disease (claims 45, 46, 54, and 55),
- (f) an immune system marker (claims 45, 46, 49-51), or
- (g) a combination thereof (e.g., claims 56 and 57).

If (g) is elected, then a specific combination of any two or more of (a)-(f) is also required.

For Group I above, Applicant is further required to elect:

An embodiment wherein the disease is

- (i) a cancer (claims 47, 54, 55) or (ii) an infection (claims 47, 48, 54, 55), and
- if (ii) is elected, one of the infections of claim 48;

and

An embodiment wherein the agent to be administered:

- (A) inhibits the production of regulator cells (claim 60),
- (B) limits the function of regulator cells (claim 60).
- (C) destroys regulator cells (claim 60), or
- (D) is a vaccine (claims 64 and 65).

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Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

- The claims are deemed to correspond to the species as indicated above.
- The following claim(s) are generic: 45, 46, 58, 59, 61, 62, and 66.
- 5. The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons: the common technical feature of the claimed species is the use of determining effector or regulatory cells cycling to indicate when an agent should be administered to treat a disease. The species therefore lack unity because the WO reference cited above teaches such a method.

Conclusion

6. Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not Application/Control Number: 10/576,981 Page 5

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distinctly and specifically point out supposed errors in the restriction requirement, the election

shall be treated as an election without traverse.

7. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Zachariah Lucas whose telephone number is (571)272-0905. The

examiner can normally be reached on Monday-Friday, 8 am to 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Bruce Campell can be reached on 571-272-0974. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Zachariah Lucas/

Primary Examiner, Art Unit 1648